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RB Dannenberg, N Hu - Proceedings ISMIR 2004, 2004 - comp.nus.edu.sg  
 ... precise but slower dynamic programming algorithm. Keywords: Query-by-Humming, N-gram, Dynamic Programming, Evaluation 1. INTRODUCTION ...  
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**Multidimensional Humming Transcription Using Hidden Markov Models for Query by Humming Systems - group of 2 »**

HH Shih, SS Narayanan, CCJ Kuo - Proceedings of IEEE International conference on Acoustics ..., 2003 - sail.usc.edu  
 ... Fig. 12 shows the places where the N-gram models can be applied in the proposed humming recognition system. Our objective here is to introduce ...  
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**Name that tune: A pilot study in finding a melody from a sung query - group of 6 »**

B Pardo, J Shifrin, W Birmingham - Journal of the American Society for Information Science and ..., 2004 - doi.wiley.com  
 ... Query-by-humming music has been investigated by several research groups (Clarisse et al., 1996) in recent years, also with an emphasis on n-gram and string ...  
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**A Comparative Evaluation of Search Techniques for Query-by-Humming Using the Musart Testbed - group of 2 »**

RB Dannenberg, WP Birmingham, B Pardo, N Hu, C ... - Technology, 2007 - cs.cmu.edu  
 ... Therefore, Query-by-Humming systems assume a symbolic representation of ... if there are q copies of ngram in the ... Alternatively, weight each n-gram in the query by ...  
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**Humming transcription system and methodology**

HH Shih - 2005 - freepatentsonline.com  
 ... The humming transcription system of claim 13 wherein the music language model includes  
 a N-gram pitch model that predicts the relative pitch associated with ...  
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**An N-gram based Approach for Finding the Repeating Patterns in Musical Data**

A Innsbruck - actapress.com  
 ... An N-gram based Approach for Finding the Repeating Patterns in Musical Data. N. Patel and P. Mundur (USA). Keywords: music, information retrieval, humming and ...  
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**Evaluation of Distance Measures for MPEG-7 Melody Contours - group of 6 »**

JM Batke, G Eisenberg, P Weishaupt, T Sikora - Multimedia Signal Processing, 2004 IEEE

6th Workshop on - [nue.tu-berlin.de](http://nue.tu-berlin.de)

... users used the same melodies, nor a metronome click was provided while **humming**. ... parameter normalization and also on the parameter N for **n-gram** distance measures ...

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### Phrase based feature extraction for musical information retrieval - group of 2

»

T Yanase, A Takasu, J Adachi - Communications, Computers and Signal Processing, 1999 IEEE ..., 1999 - [ieeexplore.ieee.org](http://ieeexplore.ieee.org)

... In these approaches, ie, query by **humming**, singing and performing, queries ... In order to represent the note sequences with vectors, we use **n-gram** patterns as ...

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### Polyphonic Queries: A Review of Recent Research

C McKay - [music.mcgill.ca](http://music.mcgill.ca)

... successful in showing the potential utility of the modified **n-gram** approach, which has been ... the aim of producing methods that could be used with query by **humming**. ...

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### Effective and Efficient Melody-Matching Method in a Large-Scale Music Database

SP Heo - LECTURE NOTES IN COMPUTER SCIENCE, 2004 - Springer

... songs and 10,000 pieces automatically generated by n-gram. The probabilities of **n-gram** [5] were estimated from the 155 children's songs. **Humming** data sung by five ...

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